

GEOLOGICAL SURVEY OF CANADA.

GENERAL INDEX

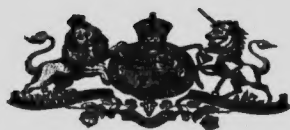
TO

REPORTS

1885-1906.

COMPILED BY

F. J. NICOLAS.



OTTAWA
GOVERNMENT PRINTING BUREAU
1908

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To the Honourable

WILLIAM TEMPLEMAN, M.P.,

Minister of Mines.

SIR,—I have the honour to submit the General Index, embracing the New Series of Reports of the Survey (1885-1906).

The observations of the Survey embodied in its reports accumulate rapidly and unless a general index is prepared from time to time valuable information becomes buried under a mass of succeeding publications to be lost sight of by the public or only to be found by long and diligent search.

The material collected by the Survey from 1847 to 1863 was condensed and systematized in the *Geology of Canada* published in 1863, which was virtually a General Report of Progress to date.

In 1897, under Dr. DAWSON's instructions, Mr. D. B. DOWLING prepared a general index covering the Survey's publications from the 1863 report to the end of the Old Series, 1884 report, inclusive. The New Series, which commenced with the 1885 report, contains individual indexes, and consequently, for some years, did not call for a general index, but by 1904 the number issued had become so large that Dr. BELL commissioned Mr. FRANK NICOLAS to compile a full index to these reports. This heavy task was accomplished in his time after office hours. The original intention was to exclude minor references to palaeontology, botany and glaciation but at the request of officers of the Survey, especially interested in such sections of geology, the author extended his work to cover these subjects, without extra remuneration. This was only possible through the help of officers especially interested, which the author fully acknowledges.

The work was undertaken in May, 1904, and completed in May, 1906. In view of the conditions under which the work was accomplished, the accuracy required, and the magnitude of the task—about 180,000 references are included—it is evident that the author has displayed commendable zeal and expedition.

It is believed that this Index will materially aid the public in readily obtaining desired information from the New Series reports.

This, combined with the former index (1863-1884), forms a complete index to the English edition of the Survey publications. Lists of these publications are issued from time to time and may be obtained by anyone, on application to the Survey.

I have the honour to be, Sir,

Your obedient servant,

R. W. BROCK,
Acting Director.

OTTAWA, January, 1908.



A. P. Low, LL.D., &c.,

Deputy Minister and Director,

Geological Survey of Canada.

DEAR SIR,—I have the honour to submit, according to the contract originally made by Dr. R. BELL, and subsequently endorsed by you, a General Index to the "Annual" volumes, sixteen in number, published by the Geological Survey since 1884. These volumes, though nominally "Annual," sometimes include the reports of two years; they contain most of the principal publications issued by the Survey during the last twenty-two years.

It was not until a large portion of this work had been completed that Parliament passed a Bill constituting the new provinces of Alberta and Saskatchewan and cancelling the territories of Assiniboia and Athabaska. The change naturally entailed a great amount of work in bringing the references to conform to the new boundaries; had it not been for these necessary changes this Index would have been published much earlier.

I take this opportunity of acknowledging that without the help of all the officers of the Geological Survey this work could never have attained accuracy. That help has been given, in every case, unstintingly. To the Paleontologists of the Survey, and especially to Dr. J. F. WHITEAVES, who has revised every galley, are due the excellent fossil and zoological references included in the work; and similar acknowledgments are due to Prof. J. MACOUN and Mr. J. M. MACOUN for the careful manner in which they have checked the botanical and ornithological lists.

As regards the other officers of the Department there is not one who has not, from time to time, given me valuable help, but I must tender special thanks to Mr. D. B. DOWLING, whose intimate knowledge of the Grass River district and the coal areas of the Rocky mountains, together with his previous experience gained in indexing the Geological Survey reports from 1863 to 1884, has added much to the usefulness of this work; to Mr. HUGH FLETCHER, whose lively interest in the work from its initiation and whose many years of exploration in Nova Scotia enabled me to follow the reports of that province much more ably than could otherwise have been possible; to Dr. R. W. ELLS, who took an immense amount of trouble in elucidating many of the geographical and geological features of New Brunswick and Quebec; to Mr. W. McINNIS, to whom the correct locating of the innumerable rivers and lakes in the Rainy River and southern Thunder Bay districts is mainly due; and to yourself, who, though overburdened with the cares of Directorship, never grudged me the time to adequately discuss references to northern Quebec, the unpronounceable names of Labrador and the position of numerous questionable localities in Franklin.

The geographical names of this Dominion had, in many cases, become so distorted by local use or by careless authors and map-makers, that Parliament appointed, in 1898, a Geographic Board, to give decisions on disputed nomenclature. In order that this General Index should be made as far as possible a standard work in regard to the correct

spelling of the names of Canadian localities, Mr. JAMES WHITE, Dominion Geographer, a member of the Board, carefully revised the first three hundred pages and, but for the necessity of his visit to England, would have continued to check the entire work. In the balance of the Index the spelling of the names is in accord with the decisions of the Board, so far as they were published up to the time of going to press.

A special point has been made throughout the volume, of supplying, whenever possible, the full initials of any person to whom reference has been made. In connexion with this endeavour, over one thousand letters have been written asking for information and all but seven have elicited replies. For information of this description I am especially indebted to Mr. C. C. CHIPMAN, Commissioner of the Hudson's Bay Company at Winnipeg.

As to typographical errors the compiler believes that the Index will compare favourably with any similar work published in Canada and for this he tenders his grateful thanks to his assistant Miss ETHEL WHITE, whose vigilance and untiring efforts have very largely contributed to make this work of reference worthy of the reports of which it endeavours to form a synopsis.

Your obedient servant,

FRANK NICOLAS.

OTTAWA, January, 1908.

ABBREVIATIONS.

Alta.	Province of Alberta, (including the former territory of Alberta and the western portions of the former territories of Saskatchewan, Assiniboia and Athabaska).
B. C.	Province of British Columbia.
C. B.	Cape Breton.
C.P.R.	Canadian Pacific Railway.
Frank.	Provisional district of Franklin*.
G.T.R.	Grand Trunk Railway.
H.B.C.	Hudson's Bay Company.
I.C.R.	Intercolonial Railway.
Kee.	Provisional district of Keewatin*.
Lab.	Labrador and the provisional district of Ungava*.
Mack.	Provisional district of Mackenzie*.
Man.	Province of Manitoba.
N. B.	Province of New Brunswick.
N. S.	Province of Nova Scotia.
Ont.	Province of Ontario.
P.E.I.	Province of Prince Edward Island.
Q.C.I.	Queen Charlotte islands.
Que.	Province of Quebec.
R. M.	Rocky mountains.
Sask.	Province of Saskatchewan, including the eastern portions of former territories of Saskatchewan, Assiniboia and Athabaska.
V. I.	Vancouver island.
Ykn.	Territory of Yukon.

The above divisions have been chosen in consultation with the Dominion Geographer as being, on account of general usage, the most suitable. According, however, to Act of Parliament, Keewatin, Ungava, Mackenzie and Franklin have no legal existence, the whole being included under the general term North-west Territories, while Labrador includes only that portion of the Atlantic coast under the jurisdiction of Newfoundland.

* As defined by Order-in-Council.

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ERRATA.

Accipenser read *Acipenser*.

Alaska, glaciation in, 42 A XIV, read 44 A XIV.

Algoma silver mine, etc., read.

Algoma silver mine, MACGREGOR TPL., ONT., 64 H III.

Algoma silver mine, NEEBING TPL., ONT., 66 H III.

Analyses—

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Blairmore-Frank coal-field, Alta., 24 E XIII; Not 24 E XIII.

N. Saskatchewan river, for 33, 34, read 112, 113.

Pent—

St. Hubert, Que., 56 R IV, read 5 R IV.

Anjikoming, read **Anzhekumming**.

Armstrong, D. B., 313 XVI, read 313 A XVI.

Auk, lean, read **Auk**, least.

Ayers flat, read **Ayers cliff**.

Bering land, read **Banks land**.

Bell, Dr. Robt., Summary Reports as Director, *delete* 1899 and 1900.

Berry, Saskatchewan, read **Berry, Saskatoon**.

Beverly, ONT., read **Delta, ONT.**

Beverly tp., read **Beverley tp.**

Blessington mine, HASTINGS CO., read **Blessington mines**, EAGLE AND ST. GEORGE LAKES, FRON-
TENAC CO., ONT.

Bodwin, read **Bowdoin**.

Bright, YORK CO., N. B., read **Bright par.**, ETC.

British Columbia Smelting Co., 65 Q III, read 65 A III.

Brookfield, ETC., 67 D I, read **Brookfield, ETC.**, 68 E I.

Burgess mines, read **Burgess Mines**.

Callender, read **Callander**.

Charleton Island, read **Charlton Island**.

Chiputneticook, read **Chiputneticook**.

Clinton Golden lake, read **Clinton Golden lake**.

Coul Brook, INHABITANTS BASIN, N.S., 42 A XI, read 42 S XI.

Cockmagun, read **Cognmagun**.

Côte de la Beaupré selg., CHARLEVOIX CO., QUE., read **Côte de Beaupré selg.**, MONTMORENCY
CO., QUE.

Cribbean head, read **Carribean head**.

Crooked lake, E. OF TIMAGAMI LAKE, read **Snake Island lake**.

Crowbird, read **Cowbird**.

Dawson, appointed Director, 44 SS IV, read 153 A VII.

Denville, p. 526 should appear on p. 527.

Flying post, MATTAGAMI RIVER, ONT., read **Flying post**, GROUND-HOG LAKE, ALGOMA DIST., ONT.

Foley gold mine, LAKE OF THE WOODS, ONT., read **Foley gold mine**, SHOAL LAKE, SEINE RIVER,
ONT.

- Gap mine** (Line 23, col. 1, p. 492), *read Gap Mining Co.*
- Garnets**, Grass River dist., *delete* 35, 37, 46 ff. XIII.
- Quebec, *delete* Webster lake 81 ff. XI.
- Glen nevis**, *read Glennevis.*
- Hawk Bay gold mine**, NEAR SHERBROOK LAKES, ONT., *read Hawk Bay gold mine, ATIKOKAN RIVER, ONT.*
- Hillier gold mine**, *read Hilley gold mine.*
- Hoffmann**, Gilbert Christian, *read Hoffmann, George Christian*
- Howes**, Jaspar, *read Howse, Jaspar*
- Larivière**, MAN., *read La Rivière.*
- LaSalle river**, MAN., *read Sate river.*
- Laskett**, *read Lasqueth.*
- Laverslochère**, *read Laverlochère.*
- Lewis river**, (p. 508), *read Lewes river.*
- Maclean falls**, HAMILTON RIVER, LAB., *See* Grand rapid, *read See* Grand falls.
- Nicomekyl road**, *read Nicomekl road.*
- Orleans**, RUSSELL CO., *read Orleans, GLOUCESTER TWP., CARLETON CO.*
- Paonan pen**, *read Peonan pen*
- Partridge-crop lake**, MAN., *See* Pimemuta lake, *read See* Pimemuta lake.
- Pasquia hills**, KEE, *read Pasquia hills, SASK.*
- Pile-of-bones-creek**, *read Waskana creek.*
- Pribilof Island**, *read Pribilof Island.*
- Prince Edward Island**, *read Prince Edward Island.*
- Quitchenna**, *read Quitchenn.*
- Sheep creek**, HIGHWOOD RIVER, *read Sheep river.*
- Stinking lake**, SASK., *read Whitebear lake.*
- Stoney Indians**, *read Stony Indians.*
- Verendrye**, *read Verandrye.*
- Waskatowaka lake**, *read Waskatowaka lake.*

NOTES.

With the exception of the new provinces of Alberta and Saskatchewan, and the districts of Ungava and Labrador (which are included under the abbreviation "Lab."), the provinces, provisional districts and territory mentioned in this Index are those coloured in the map of the Dominion of Canada published by the Department of the Interior in 1903.

Throughout this work all localities in Ottawa county, Quebec, have been referred either to "Labelle county" or to "Wright county." These divisions are not "counties" in the accepted meaning of the term, but are electoral divisions for the Federal Parliament and are Judicial divisions for Provincial Government purposes.

For purposes of more exact reference certain areal names are used in the Index that are not the names of political divisions but refer to areas covered by published geological map-sheets.

These are :

Grass River dist.—comprising the area to the northwest of Lake Winnipeg, lying between the lower Saskatchewan river and the Churchill river and between Cumberland lake and the Nelson river.

Manitou dist. comprising that part of Rainy River district to the east of Lake of the Woods and north of Rainy lake extending from Hawk Lake station to Taché station on the Canadian Pacific railway and from the foot of Manitou lake to a few miles north of the railway.

Ignace dist.—comprising a rectangular part of Rainy Lake district cut diagonally by the Canadian Pacific railway between Taché and English River stations and extending about twenty miles to the north and south of the railway.

Seine River dist. comprising the part of Rainy River district lying to the north of Hunter island and to the south of the last named area and extending from the boundary of Thunder Bay district westerly nearly to Rainy lake.

Shebandowan dist.—comprising the part of Thunder Bay district lying between its western boundary and Thunder bay and extending north and south between Carleton station and Port Arthur.



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Graham island, B.C.	40, 43, 44 f	XVI
Red Deer river and tribs., Alta.	62, 125 f	II
5, 10, 11 f		III
70 R		A
10, 11 R		VI
49 S		A
Rock creek, Kettle river, B.C.	59 R	VII
Similkameen river, B.C.	10 R	VI
Swan river, Man.	229 f	A
6 R		VI
Sheep creek, Highwood river, Alta.	18 R	VII
84, 85, 87 AA		VI
Souris coal-field, Sask.	33, 38, 40 f	VI
Talaameen river, B.C.	29, 30 R	VII
Tuya river, B.C.	19 R	IX
United States.		
Canon city, Col.	150 f	II
Seattle, Wash.	92 R	III
Turtle mt., Dak.	193 A	XV

Coal and fossil fuels - Con.

Vancouver island	88, 90, 91 R	III
Western coal fields, Yukon	17, 19 f	II
60, 63 S		XI
Chiff creek	27, 28 R	XII
16, 48 A		VII
Coal creek	10, 11 R	IX
20, 27 R		XII
Dugdale.	30, 31 R	XII
48 A		VII
Klondike river	23 R	XII
Lewes river	119 R	III
31 f		II
28, 29 R		XII
Whitehorse.	23, 25 R	XII
Cobaltiferous arsenopyrite.		
Graham tp., Ont.	45 R	A
Cookette.		
Wait a bit creek, Columbia river, B.C.	22 R	VI
Copper and Copper Ores.		
Ascot tp., Que.	30 k	IV
Boundary Creek dist., B.C.	119 A	XV
Copper island, Shuswap lake, B.C.	67 R	VII
Coxheath dist., N.S.	57 S	VI
Fabre tp., Que.	145 f	A
Lechalep, N.S.	121 f	II
McKim tp., Ont.	19 f	II
Sooke, V. I.	19 f	II
Sudbury dist., Ont.	10 R	XIV
Corundum.		
Pend d'Oreille river, B.C.	15 R	IX
Cyanite-Granite-Gneiss.		
Snake creek, Ottawa river, Que.	18 R	IX
Damourite.		
Kicking Horse valley, B.C.	21 R	VI
Danaitite.		
Graham tp., Ont.	19 R	A
Monte Cristo mt., B.C.	13, 14, 29 R	VII
Sudbury dist., Ont.	104 R	XIV
Danaitite.		
Walrus island, Lab.	15 R	XII
Datolite.		
Derry tp., Que.	17, 18 R	XII
Dolomites and Limestones.		
Aldfield tp., Que.	26, 27 f	IX
Barrie tp., Ont.	27 R	IX
Cape Breton island, N.S.	110 A	XVI
Castle Mountain formation	20 f	II
Colborne tp., Ont.	33, 34 f	XVI
Cumberland road, N.S.	188 f	A
East Selkirk, Man.	82 f	VI
Gloucester tp., Ont.	19, 20 f	VI
Hackettstown, N.J.	173 f	VII
Halton co., Ont.	16, 17 f	VII
Hochelega co., Que.	20, 21 R	IX
Hull, Que.	34, 35 R	VII
45, 46 f		XII
Kamanskis, Alta.	20 R	VI
Kicking Horse pass, B.C.	41 f	II
Kingston, Ont.	25, 26 f	IX
Lower Fort Garry, Man.	78 f	VI
Lambert co., N.S.	18, 19 R	VI
Nepan tp., Ont.	26 R	XII
Ottawa front, Ont.	32, 33 R	XII
Panache lake, Ont.	13 f	A

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Dolomites and limestones

Ponte Claire, Jacques Cartier co., Que.	21 R	IV
Portland, N.B.	15, 16 R	XII
Posh, Sagadahoc co., Ont.	31, 32 R	XII
Rossville, Ont.	27, 28 R	XII
Rossville, Ont.	24, 25 R	XII
St. John's, N.B.	35 O	XI
	15 R	XII
	15 M	X
S. Laurent de Montcalm, Que.	159 A	XII
Springville, N.S.	20, 21 R	XI
	123 R	X
Stephen mt., B.C.	18 C	XI
Walkerton, Ont.	20 R	X
Wellington co., Ont.	26, 27 R	XII
	10, 17 R	XI

Domeykite.

Salisbury, Ont.	118 R	XIV
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Edenite.

Grenville tp., Que.	13, 14 R	XII
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Eucalyte.

Monteregian hills, Que.	10 G	XVI
Shelford mt.,	11 L	XII
Yamaska mt.,	26, 40 R	XVI
Rognstock, Bohemia.	14 L	XII
Salem Neck, Mass.	14 L	XII

Faujasite.

Dorville tp., Que.	12, 13 R	XII
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Feldspar.

Brome mt., Que.	19 L	XII
Paul island, Lab.	130 J	XII
Sault a Puce river, Que.	21, 26 L	A
Villeneuve tp., Que.	158 K	IV
	221 S	A

Felsite.

Hay cove, Red islands, N.S.	22, 23 R	XII
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Fibroferrite.

Elbow river, Alta.	12, 13 R	IX
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Fretbergite.

Eagle river, Shuswap lake, B.C.	65 R	A
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Fullers earth.

Rock creek, Klondike river, Ykn.	19 R	XII
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Gabbro.

Cote St. Pierre, Labelle co., Que.	62 O	XII
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Emerald mine, Buckingham tp., Que.	41 O	XII
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Galen.

See also under Gold and Silver assays.		
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Calumet island, Que.	120 S	A
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Smithfield, N.S.	162 P	H
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Timiskaming lake, Que.	84 S	VI
	120 S	X

Garnierite.

Noumea	181 H	XV
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Genthite.

Jackson co., Penn.	176, 177 H	XIV
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Gerardite.

Denson tp., Ont.	24, 45 R	A
	103 H	XIV

Gneiss.

Lachute, Que.	9 O	XII
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Montebello, Que.	4 O	XII
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Nipissing dist., Ont.	55-57 I	X
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Gneiss

Rawdon tp., Que.	58 J	XII
St. Jean de Matha, Que.	58 J	XII
Trembling lake, Que.	58 J	XII
Trembling mts., Que.	50 O	XII
	97	XII

Gold.

See under Gold and Silver assays.		
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Granite.

American cove, Tor bay, N.S.	32, 33 J	VI
Cape Ann, Mass.	6 O	XI
Carlingford, Ireland	97	XI

Granite-gneiss.

Nipissing dist., Ont.	19 I	X
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Granite-gneiss.

Kipawa lake, Que.	18, 19 L	IX
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Granodiorite.

Nelson, B.C.	101 A	XV
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Graphite.

Alkow harbour, Dean canal, B.C.	16 R	IX
Denbigh tp., Ont.	67 R	A
Marmora tp., Ont.	11, 12 R	XII

Graphitic rock.

River Denys road, Inverness co., N.S.	67 J	XII
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Grossularite.

Coleraine tp., Que.	16 R	IX
Lowes river, Ykn.	14, 15 R	XII
Litchfield tp., Que.	16 R	VI

Gypsum and gypsum rocks.

Baddeck bay, Victoria co., N.S.	78 S	X
Hillsborough, N.B.	97 M	X
Mabou, N.S.	77 S	A
	78 S	X

Tennycap, N.S.	65 AA	VI
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Wentworth, N.S.	78 S	XI
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Harmotome.

O'Connor tp., Ont.	16 L	A
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Hessite.

Long lake, Yale div., B.C.	11, 12 R	XII
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Hornblende.

Foster bar, Fraser river, B.C.	17 R	VI
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Hubnerite.

Emerald, N.S.	10 R	XI
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Hydromagnesite.

Cariboo road, Lillooet dist., B.C.	10, 12 R	XI
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Hydronephelite.

Ice river, B.C.	13 R	XII
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Hypersthene.

Marey mt., N.Y.	130 I	XII
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Ilvaite.

Barkly sound, V.I.	11 R	A
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Iron and iron ore.

Cameron tp., Ont.	23, 24 R	VI
Comox coal-field, V.I.	151 R	III
Lutterworth tp., Ont.	9 J	VI
Millstream river, N.B.	83 S	A

Nova Scotia, annotated table of,		
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northwestern	98, 107 S	X
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Petitsikapau lake, Lab.	179, 180 P	V
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Rawdon tp., Que.	285 L	XII
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Red Deer river, Alta.	142 J	XII
	150 R	II

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Iron and iron ores - *Cont.*

R. donda island, B. C.	65 s	XVI
St. Jerome, Que.	140 J	XVI
St. Joseph island La. Huron, Ont.	13, 14 R	X
Silver Mountain dist., Ont.	16 A	X
Sunnybrae, N. S.	106, 107 s	X
Timagami lake, Ont.	127 A	X
Wallace Mines, Ont.	148 J	X
Wexford tp., Que.	111	X
	112 J	X
Winnipeg lake, Man.	17 A	X
	47 s	X

Iron ankerite.

Colchester and "Guysboro" co., N.S.	100, 103 s	X
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Iron hematite

Arnsburg dist., N.S.	35, 36	XI
Avondale, N.S.	23 J	XI
Badard tp., Ont.	39 J	X
Bathurst tp., Ont.	25 J	XII
Jacksontown, N.B.	14 M	X
Kingston-Pembroke Ry. dist., Ont.	20, 21, 26 s	XII
	16, 17 J	XII
	App. 1 Pt. 1	XII
Koksoak river, Lab.	17, 18 R	XII
Black Sturgeon lake, Ont.	39 R	X
Bristol, Que.	12 K	IV
Cow bay, C. Breton co., N.S.	16 R	XII
Hull, Que.	10 K	IV
L. Superior, Ont.	172 J	XII
Lamark co., Ont.	21 R	IV
Lochalber, N.S.	115	II
Loon lake, Algoma dist., Ont.	21, 22 R	IV
Mabou harbour, N.S.	53 R	IX
	21 R	XI
Middle river, Victoria co., N.S.	32 R	XII
North mtns., N.S.	16 R	XII
Nova Scotia, annotated list of	98, 107 s	X
Saravak tp., Ont.	33 R	XIII
South Crosby tp., Ont.	18 T	II
Spence's Bridge, B.C.	26 T	III
Sunnybrae, N.S.	33 R	XIII
Waboose lake, Ont.	33 R	XIII
Winnipeg lake, Man.	19 T	II
	25 T	III
	61 G	VI
Woodstock par., N.B.	150 A	XIII

Iron ilmenite.

Ste. Julienne, Que.	111 J	VII
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Iron ilmonite.

East river, Pictou co., N.S.	71 s	VI
Grand River, Richmond co., N.S.	36 R	XII
Halifax co., N.S., various localities	185 A	XX
Kilkenny tp., Que.	16 R	XII
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L'Islet, Que.	27 K	IV
Mattagami river, Ont.	33 R	XIII
Nova Scotia, annotated list of	98, 107 s	X
Petite Côte, Vaudreuil co., Que.	27 K	IV
Port Kells, Fraser river, B.C.	33 R	XIII
Ste. Angélique and St. Charles, Que.	27 K	IV
St. Maurice, Que.	27 K	IV
Springville, N.S.	98 s	X
Winnipeg lake, Man.	19 T	II

Iron magnetite.

Airy tp., Ont.	19 R	XIII
Albany river, Ont.	26 T	III
Ascot tp., Que.	15, 16, 18 T	II
Ashuampi river, Lab.	18, 19 R	VII
Atikokan river, Ont.	38 R	V
	55, 56 R	X

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Bagot tp., Ont.	19, 22, 26	VI
Base St. Paul, Que.	14	X
Bedford tp., Ont.	24	VI
Big Turtle river, Ont.	36	XI
Carlow tp., Ont.	21, 25	XI
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	152 J	X
Chapin port, N.S.	22, 23	X
Chapin port, N.S.	24	X
Clayton, Ont.	19	X
Clayton tp., Ont.	20, 21 s	X
Green water lake, Ont.	27 A	X
Gaultville lake, Ont.	27	X
Kemogami lake, Q.	27	X
Kiddella river, B.C.	26, 27	X
Koksoak river, Lab.	17, 18	X
Kingston-Pembroke Ry. dist., Ont.	16, 17	X
	App. 1 Pt. 1	X
Hull, Que.	31, 10 s	X
Jackfish mine, Ont.	31, 32	X
Juan de Fuca strait, B.C.	17, 18	X
Kamistikwa, Que.	22	X
Lamark co., Q.	20, 21, 25, 26	X
Leeds tp., Que.	26	X
Lepreau, N.B.	27 s	X
	1, 8	X
Little Gull lake, Ont.	24 A	X
	17 J	X
Lutterworth, Ont.	25 J	X
	8	X
	20 s	X
	51 A	X
Moss tp., Ont.	36, 37	X
Nictaux mines, N.S.	29, 30 R	XII
North Crosby tp., Ont.	22 K	X
	21, 22 K	XII
North mountain, N.S.	16 K	XII
Oso tp., Ont.	30 J	XIII
Pine creek, Waterton river, Alta.	38 E	X
St. Jerome, Que.	16, 17 J	X
	110	XII
Seme river, Ont.	27 J	X
Shebandowan sheet area, Ont.	90 H	X
Snowdon tp., Ont.	19, 20 R	XII
	51 A	IX
Sutton lake, Kee	32 R	XIII
Texada island, B.C.	99 R	III
Timagami lake, Ont.	31 R	XIII
Thunder Bay silver district, Ont.	24 H	X
Wollaston tp., Ont.	24 J	XI
	51 A	X
Wexford tp., Que.	16, 17 J	XII
Wolfestown tp., Que.	30 K	XIII

Iron Pyrites.

Garthby tp., Que.	57 K	IX
Masham tp., Que.	37 R	XI
North Burgess tp., Ont.	150 H	XIV
St. Jerome, Que.	150 H	XI
Sudbury dist., Ont.	40 K	X
	145 J	X
	34, 35 R	XIII
	96 H	XIV
Timagami lake, Ont.	146 J	X

Iron Sand.

St. Mary bay, Digby co., N.S.	102, 103 s	X
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Iron Siderite.

French river, Pictou co., N.S.	115 P	VI
Galway tp., Ont.	14 J	VI

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McIntyre tp., Ont.	23	IV	Shallow lake, Grey co., Ont.	30, 31	R
Sarceland river, N. S.	104, 105	S	Sheffield tp., Ont.	25, 26	R
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Jacupirangite.			White lake, Hastings co., Ont.	27	R
A. Kansas, U. S., and Sao Paulo, Brazil	339	XVI			
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Vosges mtns., France and Germany.	6	XII	<i>See under Muscovite and Phlogopite.</i>		
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Lauvik, Norway	191	XIII	Egan tp., Que., and Ross tp., Ont.	19	A
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Laurdalose.			Molybdenite.		
Brome mt., Que.	13	XVI	Egan tp., Que.	17	R
Laurvikite.			Muscovite.		
Brome mt., Que.	11, 12	XVI	Matawatchan tp., Ont.	21	R
Norway	11, 13	XVI	Villeneuve tp., Que.	58	T
Lava.			Natron.		
Franklin mt., Victoria, Aus.	314	VI	Goodenough lake, B.C.	12, 13	R
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Lepidolite.			Newberryite.		
Walden tp., Que.	11, 12	R	Quartz creek, Indian river, Ykn.	13, 14	R
Lepidomelane.			Nicolite Ores.		
Marmora tp., Ont.	14, 15	R	Michigan island, Ont.	148	H
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Godway tp., Ont.	19	R	Timiskaming dist.	156, 157	H
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Atlin Lake div., B. C.	214	XI	Anglesea tp., Ont.	38	R
Bolton tp., Que.	141	K	Austrin	173	H
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Grenville tp., Que.	15, 19	X	Barnet and, V.I.	46	R
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Sudbury district, Ont.	23	H	Bordas de Centre, N.S.	33, 34	R
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Manganese Ores.			Claycoot, V.I.	40, 45, 46	R
Canada, general	Facing 169	S	Commercial nickel.	40	R
Dawson sett., N.B.	56	M	Dalhousie tp., Ont.	225	H
Hillsborough, N.B.	68	I		38	R
Jordan mt., N.B.	126	S	Dominion of Canada, general.	38	R
Lewis bay, Grand Mira, N.S.	194	H	Earley tp., Que.	173	H
Markhamville, N.B.	94	S	Galway tp., Ont.	37	R
	80	S	Hudson bay, Lab.	38, 39	R
Mira falls, C. Briton, N.S.	49	M	Ice river, B.C.	59	D
Quico head, N.B.	58	S	Jervis inlet, B.C.	35	L
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Artemesia tp., Ont.	21, 22	R		20, 21	R
Chalk lake, Ont.	20, 30	R		27, 29	R
Conlonge lake, Ont.	26	R		38, 39	R
Emerald lake, near L. Timiskaming, Ont.	27, 28	R		40	R
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	156	I		46	R
				40	R
				34	R
				37	R
				20	R
				42	R
				46	R
				47	R
				27	M
				182	H
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Nickel Ores.

Potterton tp., Que.	40 R	V
Red Deer river, Churchill river,		
Keen.	43 R	VI
St. Stephen, N.B.	39 R	V
	140 S	V
	158, 159 AA	XV
Savona, B.C.	41 R	VI
Scandinavia.	168, 169 H	XIV
Schreiber (near), Ont.	46 R	V
	41 R	VI
Sebastopol tp., Ont.	20 R	VII
Shuswap lake, B.C.	36 R	XIII
Somerville tp., Ont.	39, 40 R	VI
Sudbury dist., Ont.	41-45 R	V
	123, 131 S	V
	35 R	XIII
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Texada island, B.C.	37, 38 R	XII
Thompson river, B.C.	35, 36 R	XIII
Westmeath tp., Ont.	34 R	XIII

Nordmarkite.

Brone mt., Que.	11 G	XVI
Tonsenas, Norway	21 L	XIII

Norite.

Sudbury dist., Ont.	86 H	XIV
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Ochres.

Therville tp., Que.	117 R	IV
St. Anne de Montmorency, Que.	134 S	A

Oil and Oil Shales.

Canadian.	77 SS	IV
	369 A	XX
Dover, N.B.	228 A	XVI

Olivine Diabase.

Sudbury dist., Ont.	91 H	XIV
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Olivine Hyperite.

Lofthus, Snarum, Norway	4.	
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Opal.

Savona mt., Yale dist., B.C.	17 R	
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Peat.

Samples prepared by the Aikman		
and Hodge processes.	88 K	IV
St. Hubert, Que.	56 R	IV
Vanc river, B.C.	53 R	IX

Pegmatite.

Mattawa, Ont.	139 I	X
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Pentlandite.

Sudbury dist., Ont.	94 H	XIV
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Perthite.

North Burgess tp., Ont.	19 L	XIII
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Petzite.

Kruger mt., Yale dist., B.C.	12 R	VIII
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Phlogopite.

Oedegården, Norway.	30 O	XII
South Burgess tp., Ont.	30 O	XII

Phosphatic shale.

Dimvegan, N.S.	67 R	VII
Mackintosh brook, East bay, N.S.	70 R	V
Wilson river, Man.	26 A	V
	91 E	V
	161 S	V

Pyroclase.

North of the St. Lawrence, Que.	131 J	VIII
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Platinum.

Australia, California, Oregon, Rus-		
sia and S. America	8 J	II
Cariboo district, B.C.	190 S	XX
Granite creek, Tulameen river,		
B.C.	5, 8 J	II
Rock creek, Kettle river, B.C.	14 R	VI

Polyerase.

Calvin tp., Ont.	14 R	X
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Polydymite.

Sudbury dist., Ont.	39 H	XIV
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Pulaskite.

Kootenay, West, B.C.	104 A	XX
Monteregian hills, Que.	13 G	XX

Pyroxene.

Rawdon tp., Que.	85 J	VIII
Templeton tp., Que.	27 O	XII

Pyroxene-amphibolite.

Brandon tp., Que.	74 J	VII
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Pyroxene-gneiss.

Rawdon tp., Que.	83 J	VIII
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Quartz-andesite.

Broughton street, B.C.	67, 68 R	XII
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Rocks, unspecified.

Brone mt., Que.	317, 318 A	XX
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Sandstone.

Edmonton, Alta.	68 R	VII
Sorel, Que.	63 R	XIII

Scapolite.

Ripon tp., Que.	37 O	XI
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Scheelite.

Malaga gold dist., N.S.	9 R	XIII
Marlow tp., Que.	21 R	A

Schorlomite.

Ice river, B.C.	12, 13 R	XI
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Sericite-schist.

Wait-a-bit creek, Columbia river,		
B.C.	21, 22 R	XI

Shonkinite.

Portland W. tp., Que. and Yogo		
Peak, Montana.	15 O	XII

Silica.

Black harbour, N.B.	120 M	X
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Silver ores.*See under Gold and Silver assays.***Slate.**

Graham island, B.C.	31 R	XVI
Melbourne tp., Que.	100 J	VII
	58 J	VIII
New Rockland, Que.	130 K	IX
	187 S	A
Quebec and France.	132 K	IX
Tinzen, Switzerland	100, 101 J	XII
	58 J	VIII
Wales.	132 K	IX
	100, 101 J	XII
	58 J	VIII

Smaltite.

Cobalt, Ont.	203, 208 A	XVI
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Soapstone.

Potton tp., Que.	226 S	X
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Soils.

Black river, Nipissing dist., Ont.	123, 124 A	XIV
Peace River dist.	82 AA	XV
Salt marshes of N.B.	131 M	VII

Specular chert.

Sutton tp., Que.	23 T	III
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Stromeyerite.

Toad mt., B.C.	12, 13 R	VIII
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Strontianite.

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Struvite.

Quartz creek, Indian river, Ykn	13, 14 R	XII
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Syenite.

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Tar Sands.

Athabaska river, Alta.	83 SS	IV
	24 A	V
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Tennantite.

Bonaparte river, B.C.	13 R	IX
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Tetradymite.

Liddel creek, Kaslo river, B.C.	9, 10 R	VIII
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Tetrahedrite.

W. Kootenay dist., B.C., Antelope, claim.	12 R	II
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Therallite.

Konjokthal, Lapland.	45 O	XII
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Topaz.

Jasper house, Rocky mtns., Alta.	18 R	IX
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Tremolite.

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Trippolite.

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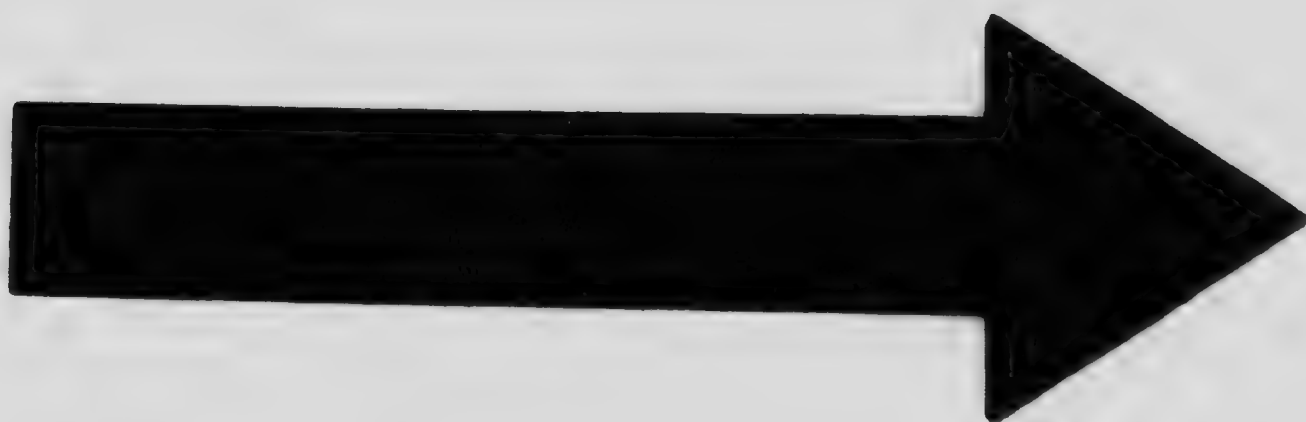
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			Yukon, Peel River dist. 47 C		XA
			brown.		
			Labrador pen. 12 C		AV

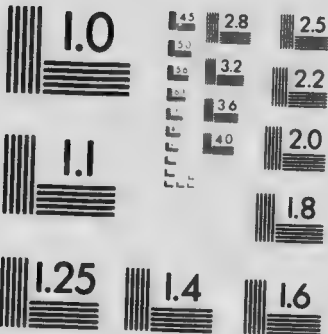
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Bulmina pristi.

Quebec city	56 I	
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" mirabilis, d'Orbigny.

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	5 H	X
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Bull, W. P.

	25 A	VI
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Bull bluff, PARSBORO' PAR., CUM

BERLAND CO., N.S.		
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Coal and black shale near

	90 P	
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Bull creek, ST. JOHN RIVER, N.B.

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1885	8,131	5,319
1886	10,673	8,420
1887	8,489	5,505
1888	7,662	5,564
1889	7,100	5,890
1890	11,159	6,016
1891	10,852	6,947
1892	10,588	6,830
1893	10,812	8,529
1894	9,592	7,650
1895	7,999	8,271
1896	7,992	8,119
1897	9,160	8,863
1898	9,241	8,866
1899	9,625	9,431
1900	10,280	8,500
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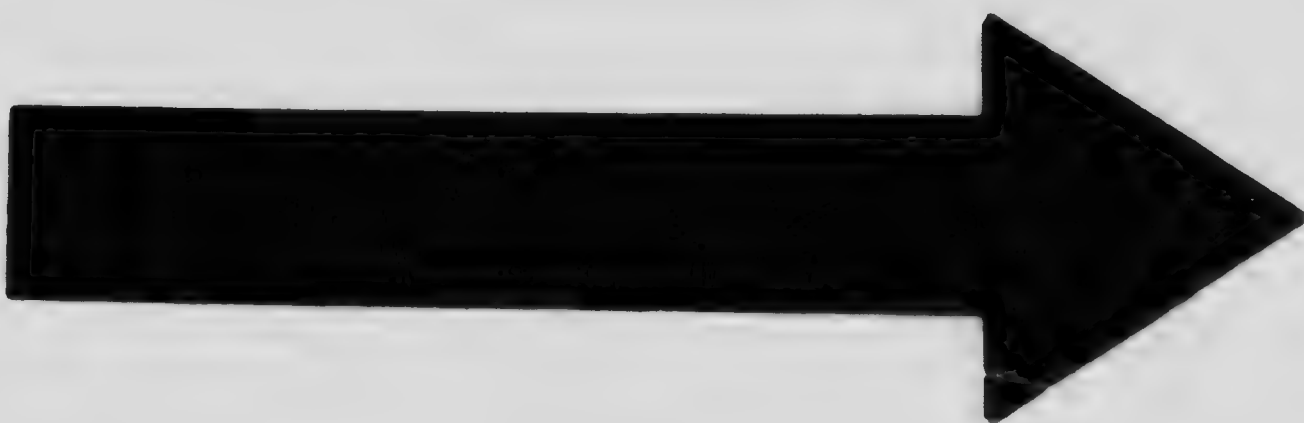
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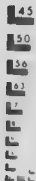
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* Misprinted (p. 56) *Glyptostrea pectinata*

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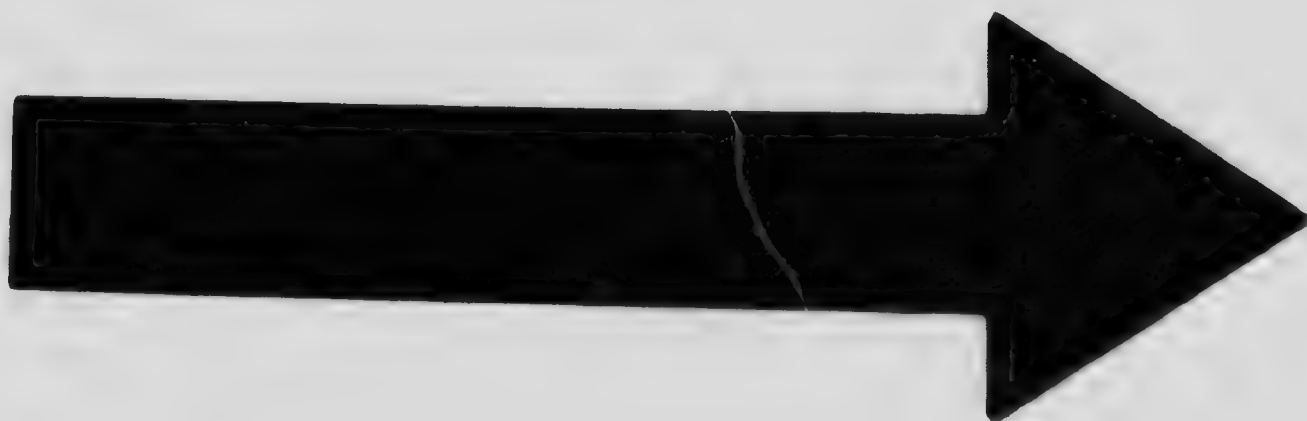
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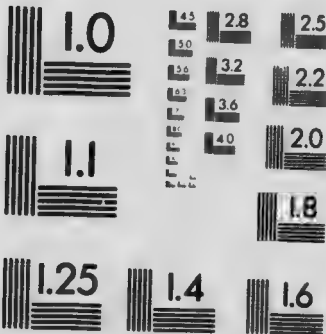
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* Now known as Bell Island. + Now known as Black river.

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‡ Now known as Cloche island.

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1890

1891

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Boulder clay in cuttings on (N. B.)

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1888

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1890

1891

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Quartz from, assay of

Tetrahedrite in

26 M

77 K

55 R

62 L

International gold mine, McMur-

DO, DIST. E. KOOTENAY, B.C.

181 s

International Nickel

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B.

C.

D.

E.

F.

G.

H.

I.

J.

K.

L.

M.

N.

O.

P.

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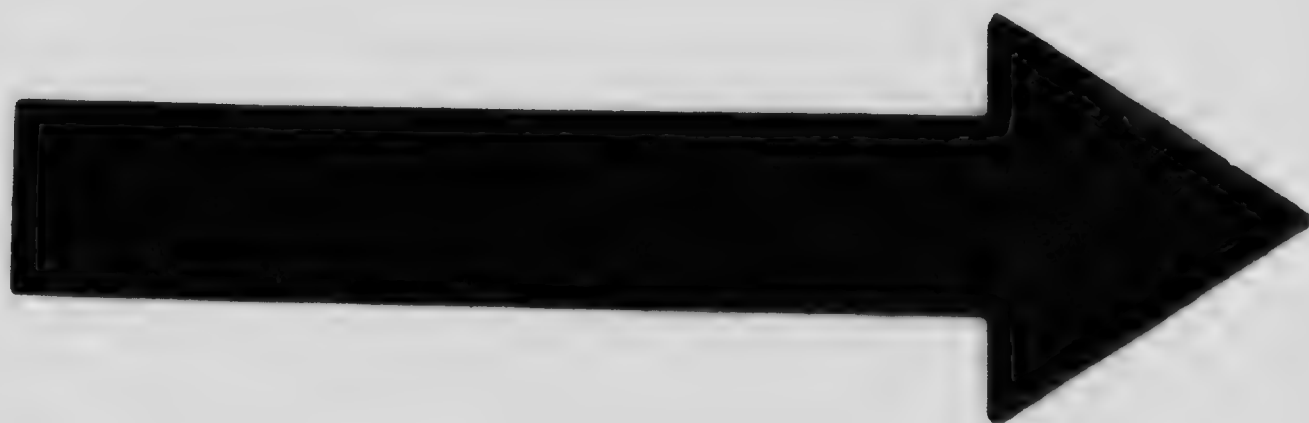
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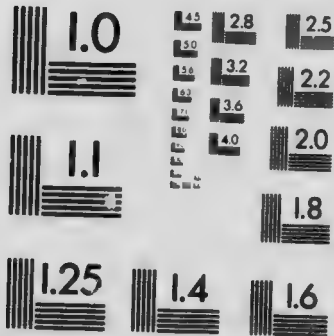
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*Dr. Ami perhaps means Can-field creek.

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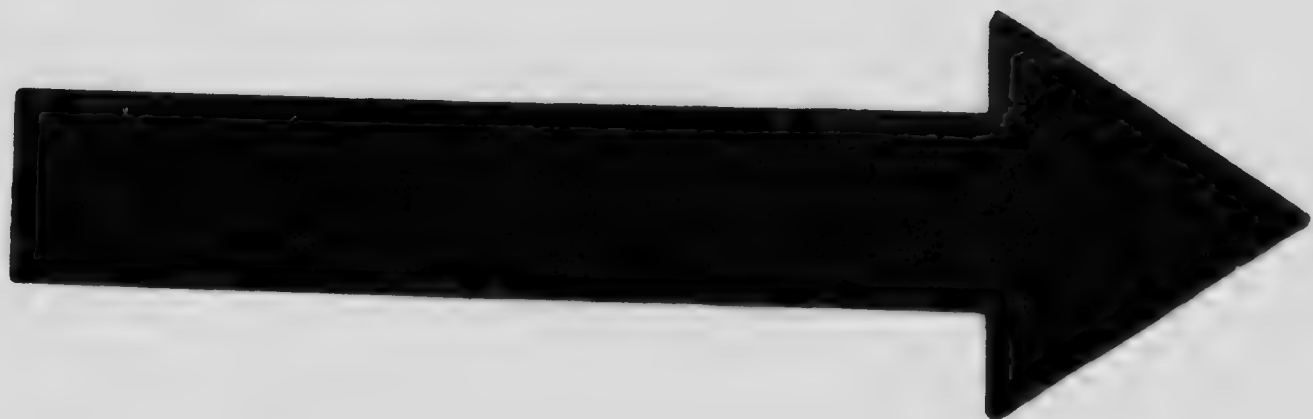
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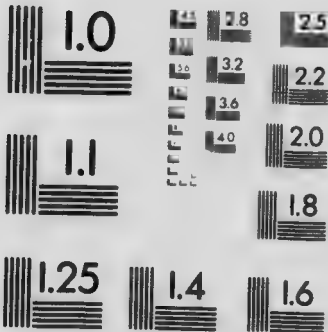
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* Me—Methodist; Mo—Moravian.

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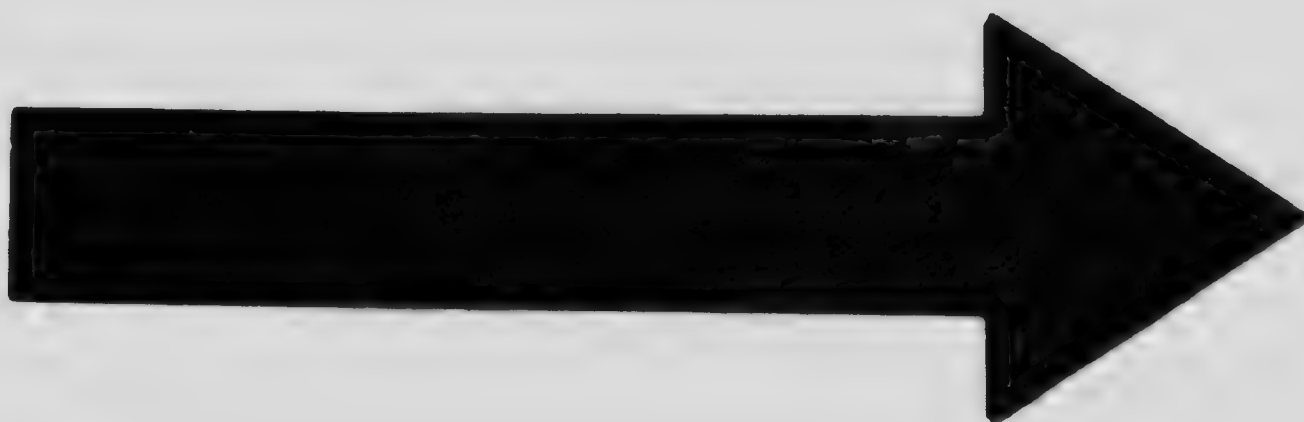
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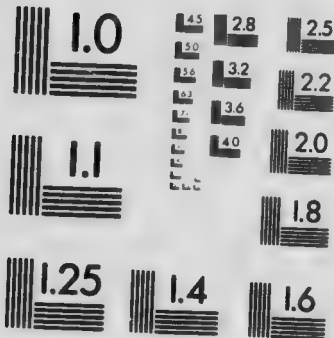
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* Note by Prof. Macoun:—"The author probably means *Inconnu*."

† Note by Prof. Macoun:—"The author probably means *Oncorhynchus tshawytscha* (King-salmon)."

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Lawrencetown (near), N.S.	109 M	IX	Island of Montreal, Que.	121, 122 J	VII
Tuladi lake, Temiscouata co., Que.	34 M	III	Grand Ligne quarries, Que.	118 J	VII
" (<i>Rhipidomella</i>) <i>hybrida</i> , Sowb.			" (<i>Hebertella</i>) <i>perlequina</i> , Conrad.		
Inglowville, N.S.	108 M	IX	Little Rideau, Ont.	141 J	XII
" <i>imperator</i> , Billings.			St. Dominique, Que.	116 J	VII
Rockland, Ont.	139 J	XII	" <i>platys</i> , Billings.		
" (<i>Hebertella</i>) <i>imperator</i> , Billings.			Etchemin river, Que.	60 K	III
Island of Montreal, Que.	122 J	VII	Grand Ligne quarries, Que.	118 J	VII
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Ottawa dist.	73 G	XII	St. Martin, Laval co., Que.	120 J	VII
" (<i>Plectorthis</i>) <i>laurentina</i> , Billings.			Little Rideau, Ont.	141 J	XII
New Edinburgh, Ont.	65 G	XII	Rockland, Ont.	139 J	XII
" <i>lira</i> , Billings.			St. Dominique, Que.	116, 117 J	VII
Middlesex road, Digby co., N.S.	116 M	IX	" (<i>Dinorthis</i>) <i>plicatella</i> , Hall.		
" <i>macfarlanei</i> , Meek.			Ottawa and vicinity.	68 G	XI
Mackenzie river, Mack.	21 R	II	" (<i>Plectorthis</i>) <i>plicatella</i> , Hall.		
" <i>meritobensis</i> , Whiteaves.			Highgate Springs, Vermont, U.S.	144 J	VII
Winnipegosis and Manitoba Lakes			Joliette, Que.	147 J	VII
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" (<i>Skovdiana</i>) <i>meritobensis</i> , Billings.			St. Barnabe (near), Que.	19 J	VI
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" <i>minna</i> , Billings.			" <i>porcia</i> , Billings.		
Bedford, Que.	125 J	VII	Bord à Plouffe, Que.	119 J	VII
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" <i>multistriata</i> , Hall.			" <i>prosvita</i> , W. and S.		
Bloomington rd., N.S.	99 M	IX	Winnipeg lake, Man.	84, 86 F	X
			" (<i>Dinorthis</i>) <i>prosvita</i> , W. and S.		
			Ottawa river, near Mattawa, Ont.	123 J	X
			Stony mt., Man.	51 F	X
			Winnipeg lake, Man.	51 F	X

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40 L I

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51 F XI

43 J XII

44 J VII

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68 G XII

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7 J VII

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Porter rd., Digby co., N. S.

St. John valley, N. B.

rudis, Sowb.

Kodjick river, N. B.

stratula, Schlothem

Athabaska river, Alta.

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Mackenzie river, Mack.

Red Deer river, Sask.

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region

strophomaculata, Hall.

Sedgwick lake, Maine, U. S.

subquadrata, Hall.

Winnipeg lake, Man.

Denorthia subquadrata, Hall.

Trenton limestones, Man.

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(Phanocopa) subquadrata, Hall.

Mile-End quarries, Hochelaga co., Que.

testudinaria, Dalman

Beaumont, Que.

Beauce river, Que.

Charlebourg, Que.

Dallousie, N. B.

East Selkirk, Man.

Lorette, Que.

Montmorency river, Que.

Namew lake, Sask. and Kee.

Nicholson lake, Mack.

Pointe-aux-Trembles, Que.

Rouge cape, Quebec co., Que.

St. Alban, Que.

Ste. Anne de la Pêrade river, Que.

Ste. Anne de Montmorency river, Que.

St. Charles river, Que.

Ste. Croix, Que.

St. Nicholas, Que.

Trenton limestones, Man.

Winkusko lake, Kee.

Winnipeg lake, Man.

(Dalmanella) testudinaria, Dalman

Abbottford (near), Que.

Allan corner, Que.

Clear lake, Renfrew co., Ont.

Fox creek, Clarence tp., Ont.

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truncata, Conrad

Abbottford (near), Que.

Joliette, Que.

N. B.

Mackenzie river, Ont.

Ottawa dist.

P. d. d. m. Ont.

Rockland, Ont.

St. Dominique, Que.

Ste. Elizabeth (near), Que.

Winnipeg lake, Man.

obdita, Billings

Back bay, Charlotte co., N. B.

obdita, Hall

Ste. Bandine, Que.

obdita, Billings

Calceferous formation

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Clonestep tp., Ont.

Manton islands, L. Nipissing, Ont.

obdita, Hall

Finmark lake

obdita, Conrad

Beaumont, Que.

Manton islands, Ont.

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obdita, Billings

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obdita, Hall

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Nepean tp., Ont.

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obdita, Billings

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obdita, Billings

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obdita, Billings

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* Note by Dr. Whiteaves. Probably a new species.

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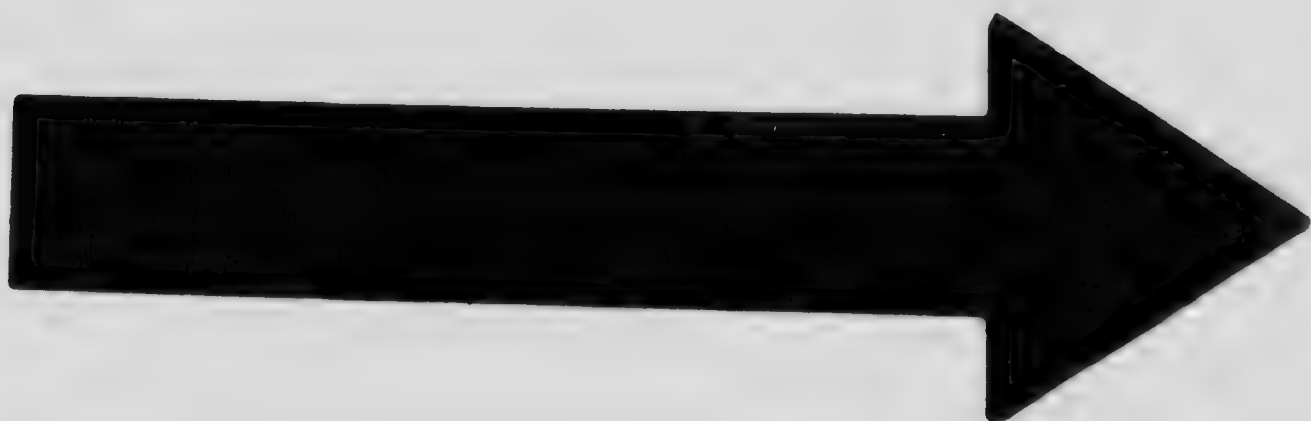
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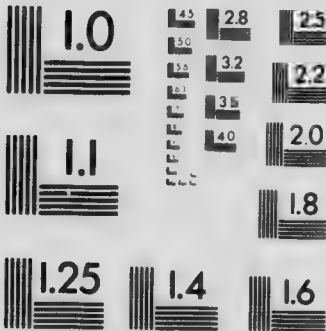
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0 A

1 M

5 G

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A X

A X

A X

A X

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A X

A X

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* Note by Dominion Archivist:—"It may have been David Ross, a lawyer of Montreal, or Alexander Ross, who met Thompson on the Columbia river in 1811."

Ross, Ward and Co., Messrs.

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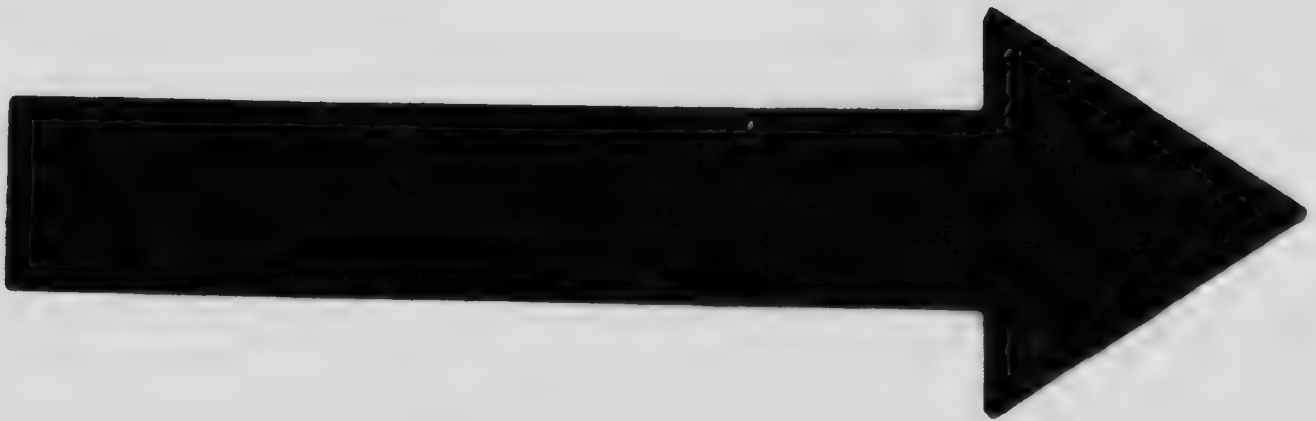
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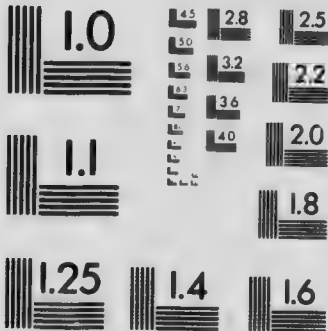
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Shallow lake, ENGLISH RIVER, KEE.

Altitude of. 7, 20 F

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Rocks on, and vicinity. 40, 42 F

Shanghai gold mine, LAWRENCE TOWN DIST., HALIFAX CO., N.S. 155 A**Shallow Lake river**, ENGLISH RIVER, KEE.*See* Mattawa river.**Shammls island**, L. OF THE WOODS, ONT. 88 CC**Shamrock claim**, ILLICILLEWAET DIV., B.C. 42 T**Shumrock claim**, MONASHEE MT., OSOYOOS DIV., B.C.

Notes on, by Brock. 81 A

Shangoinah island, L. SUPERIOR, ONT. 35 H**Shanly, Walter** 17 I**Shannon, Henry C.** *See* Sanborn and Shannon.**Shannon**, QUEENS CO., N.B. 27 S**Shannon island**, L. WINNIPEGOSIS, KEE 61 E**Shannon lake**, RICHMOND CO., N.S. 392 A**Shannonvale**, RESTIGOUCHE CO., N.B. 30 GG**Shannonville**, TYENDINAGA TP., HASTINGS CO., ONT. 179 A**Shanty creek**, FORK RIVER, MAN. 10 E**Shanty pt.**, CROW LAKE, ONT.

Agglomerates of. 48 F

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Sharbot lake, LEEDS CO., ONT.

Iron ore from, analysis. App. II, Pt. 1

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Striae near, direction. 37 J

Surveys on, ref. to. 5, 17 J

Shark.

Hudson strait, specimen. 68 A

basking

Chaleur Bay dist., N.B. and Que. 38 M

Shark mine, ILLICILLEWAET DIV., W. KOOTENAY, B.C. 64 R**Sharp, Mr.** 31 SS**Sharp cape**, CUMBERLAND CO., N.S.

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Templeton tp.
Wetmore
Zinc ore

Templeton and North Ottawa Co.
Templeton Asbestos Co.
Templeton District Phosphate Mining Syndicate.

*Temporary hardness of water

Tennate village, WINTER HARBOR, QUATSINO CO. N.E.C.

Tenaskuh village, B.C.

Tenderfoot claim, A.S.

Tenderfoot claim, KAMLOOPS LAKE, B.C.

Bornite in

specimen,

Copper ore from assay

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Bonaparte river, B.C.

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Structure of rock, etc.

Tennycupe, HANIS CO., N.S.

Clay pipe composed of

Iron ore at

Manganese ore at

Tennycupe

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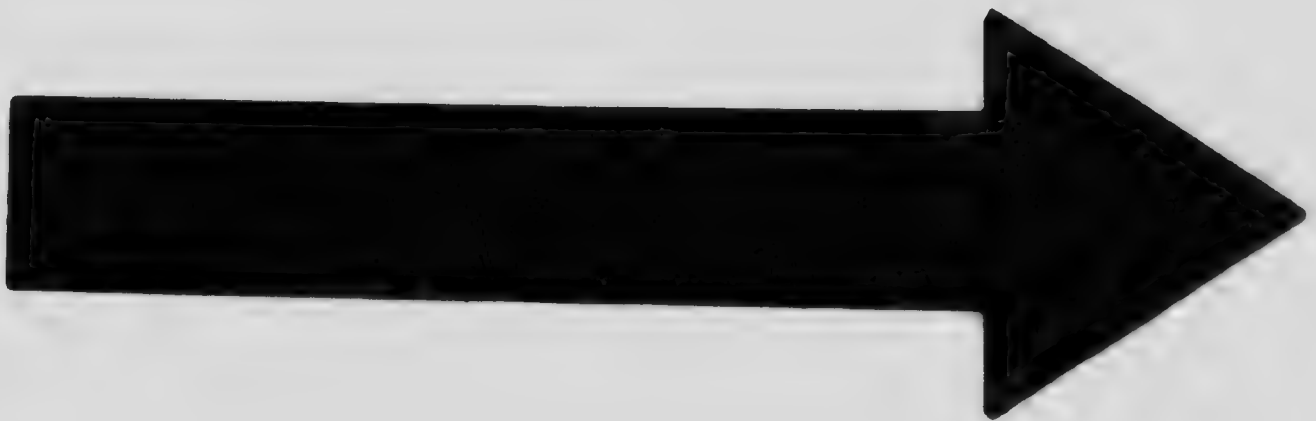
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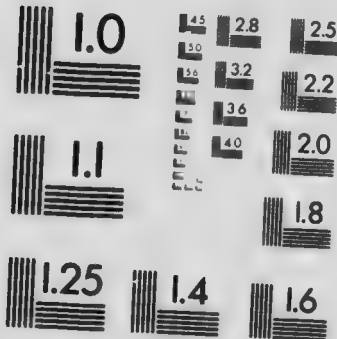
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